A Basic Development in Macroeconomic Factors on Financial Integration

Devidas Raosaheb Jadhav, Research Scholar, Department of Commerce, Janardan Rai Nagar Rajasthan Vidyapeeth University Udaipur, Rajasthan

Prof. Dr. Sakshi Mahipal, Professor, Department of Commerce, Janardan Rai Nagar Rajasthan Vidyapeeth University Udaipur, Rajasthan

Abstract

Financial integration plays a crucial role in determining the efficiency and stability of financial markets within an economy. In the case of India, a rapidly developing economy with increasing participation in global financial markets, understanding the impact of macroeconomic factors on financial integration is essential for policymakers, investors, and market participants. This study aims to investigate the relationship between various macroeconomic factors and financial integration in India. Using a combination of econometric techniques and statistical analysis, we examine how factors such as inflation, exchange rates, interest rates, GDP growth, and trade openness influence the degree of financial integration in the Indian economy. Our findings suggest that macroeconomic factors exert a significant influence on financial integration in India. In particular, we observe that periods of higher inflation tend to coincide with lower levels of financial integration, indicating a negative relationship between inflation and integration. Additionally, fluctuations in exchange rates and interest rates also impact the extent of financial integration, with volatility in these variables often leading to disruptions in financial markets and hindering integration efforts.

INTRODUCTION

There is a phenomena known as financial integration, which occurs when the financial markets of several economies are closely integrated. Indicators of long-term equilibrium are used to explain a higher inter-linkage or greater complementary relationship between various market segments. Financial integration is utilized as a sign of this equilibrium.

It is possible to achieve financial integration through the removal of restrictions that pertain to cross-border financial operations. This will make it possible for (a) financial institutions to operate without restriction, (b) businesses to directly raise funds or borrow, and (c) equity and bond investors to invest across state lines with fewer restrictions. Nevertheless, it is essential to keep in mind that the majority of the regulatory restrictions are in place as a result of the defects in the market that impede the integration of financial systems. When it comes to dealing with the defects in the market that inhibit financial integration, legal constraints are sometimes the second best devices. As a consequence, when legislative constraints are lifted, it has the potential to make the global economy even more precarious. In addition, the financial integration of neighboring, regional, and global economies can be accomplished through the formalization of an international treaty. This treaty would require the governing bodies of these economies to commit to work together in order to counteract any regional or global financial disturbances through the implementation of regulatory and policy procedures. Gross capital flows, stocks of international assets and liabilities, the degree of co movement of stock returns, the degree of dispersion of worldwide real interest rates, and financial openness are all factors that are taken into consideration when determining the extent of financial integration.

LITERATURE REVIEW

Kose, M. A., Prasad, E. S., & Terrones, M. E. (2003). This study investigates the influence that international financial integration has on the volatility of the macroeconomic environment. Given that economic theory does not offer a definitive guide to the impacts of financial integration on volatility, it can be inferred that this is primarily a subject that has to be answered through empirical research. Over the course of the years 1960-1999, we present a comprehensive analysis of the changes that occurred in the level of macroeconomic volatility in a large group of various industrial and developing economies. Two main findings are presented here: For starters, although the volatility of output growth has, on average, decreased in the 1990s in comparison to the three decades that came before it, we also document that, on average, the volatility of consumption growth in comparison to that of income growth has

IAJESM

Volume-14, Issue-II

ISSN -2393-8048, July-December 2020, Submitted in October 2020, jajesm2014@gmail.com

increased for more financially integrated developing economies in the 1990s. Secondly, there is a correlation between increased financial openness and rising relative volatility of spending, although this relationship is only observed up to a specific threshold. Beyond this threshold, it appears that the benefits of financial integration, which include improved risk-sharing and consumption-smoothing possibilities, begin to accrue.

Mendoza, E. G., Quadrini, V., & Rios-Rull, J. V. (2009). When nations' financial markets develop differently, financial integration may lead to global financial imbalances. Foreign liabilities are accumulated gradually over an extended period of time by nations with more developed financial markets. The composition of foreign portfolios is also influenced by differences in financial development: nations with negative net foreign asset positions retain positive net holdings of foreign direct investment and nondiversifiable equity. Our analysis is driven by three observations: (1) The United States leads the list of industrialized nations in terms of financial development; (2) the secular decline in the U.S. net foreign asset position began in the early 1980s and coincided with a gradual process of international financial integration; and (3) the portfolio composition of U.S. net foreign assets includes a large increase in debt and a greater proportion of risky assets..

Levine, R., Edison, H. J., Ricci, L., and Sløk, T. (2002). This study examines the relationship between international financial integration and economic growth using new data and econometric techniques. It also determines whether this relationship is dependent on factors such as macroeconomic policies, government corruption, legal system development, economic development, and financial development. We are unable to reject the null hypothesis that international financial integration does not accelerate economic growth even after adjusting for specific economic, financial, institutional, and policy characteristics using a wide range of measures of international financial integration for 57 countries and a variety of statistical methodologies.

Imbs, J. (2006). This study demonstrates how more financial integration is correlated with increased GDP swings. The "quantity puzzle," or continuous discrepancy between GDP and consumption in the data, is explained by finance, which strengthens global linkages in both areas. The puzzle is the positive correlation between GDP and financial integration, since theory argues that there should be a negative relationship. However, this phenomenon persists in the data even after controlling for the impact of money on commerce and specialization.

Unteroberdoerster, O., and P. Rungcharoenkitkul (2012). This study employs both quantity-and price-based methodologies to examine the extent of financial integration and its consequences for Asia. We create a metric for financial integration based on cross-border financial transactions, and our findings demonstrate how financially integrated Asia is, both globally and regionally. There is evidence to support the claim that financial integration significantly influences Asia's economic rebalancing. The paper then examines the idea that there is a trade-off between increased financial integration and risk sharing, weighing the advantages in terms of risk sharing against the drawbacks in terms of financial contagion. Proposed are price-based metrics for risk sharing and contagion. It is demonstrated that there is a trade-off; nevertheless, for Asia, the trade-off is below the global border, indicating room for development in the region's level of financial integration.

OBJECTIVES OF THE STUDY

- To examine the current state of financial integration in India, including the level of integration with global financial markets and the degree of integration among domestic financial markets.
- To analyze the impact of GDP growth on financial integration in India, assessing whether higher economic growth facilitates greater financial integration or if there are alternative dynamics at play.
- To investigate the relationship between inflation and financial integration in India, determining whether inflationary pressures hinder or facilitate the process of financial integration.

LIMITATIONS

Despite the thorough investigation, this study has certain limitations. Firstly, it relies on secondary data sources for macroeconomic indicators and financial integration measures, which might be subject to limitations such as data accuracy and availability. Secondly, while the analysis focuses on macroeconomic factors, it excludes other potential determinants such as institutional factors, legal frameworks, and technological advancements, which could also influence financial integration. Thirdly, the findings may be influenced by the chosen time period and might not capture long-term trends or structural changes in the relationship between macroeconomic factors and financial integration. Furthermore, due to the complexity of the financial system, the study might not capture all possible channels through which macroeconomic factors influence financial integration. Lastly, the recommendations provided may need to be adapted to specific institutional contexts and may not be universally applicable across different countries or regions.

IN THE CONTEXT OF THE GLOBAL ECONOMY, FINANCIAL INTEGRATION:

In the traditional financial system, there were not nearly as many financial instruments available for people to experiment with. Despite the fact that developed nations in the United States and other such countries are the primary holders of such intricate credit and derivative instruments, Asian nations are among the most significant investors in these assets. Determining whether or not financial integration results in increased growth or whether or not it makes a nation more susceptible to systematic risk is a contentious issue. Through the provision of increased accessibility to money through alternative financial institutions, financial integration across domestic financial segments may result in the expansion of the real sector. Nevertheless, the effective distribution of funds is contingent upon a multitude of other conditions, including the presence of a market that is both developed and transparent, the advancement of technology, the implementation of an effective payment system, the prevalence of good governance, the stability of political institutions, and the expansion of financial services. In this context, Prasad et al. (2003) suggested that taking into account all of these elements in an analysis does not provide any persuasive evidence that there is a connection between financial integration and economic growth. Furthermore, they presented actual evidence to demonstrate that a nation is more likely to experience instability if it makes an effort to become financially connected with the economy of the remainder of the globe.

IN THE CONTEXT OF INDIA, THE INTEGRATION OF FINANCIAL SYSTEMS:

Considering the context of global financial integration and the role it plays in fostering growth while also raising the likelihood of experiencing an external shock, it could be worthwhile to investigate the implications of financial liberalization in India within this context. One of the primary goals of the financial reforms that were initiated in the 1990s was to accomplish the goal of achieving financial integration. For India to be able to accomplish greater channelization of resources, it was necessary for the country to simultaneously develop various domestic financial segments, such as the money market, the capital market, and the foreign exchange market. At the same time, it was essential to take advantage of the advantages that come with being associated with the international market.

SIGNIFICANCE OF THE STUDY

This study holds significant importance for several reasons. Firstly, it addresses a gap in the literature by providing empirical insights into the relationship between macroeconomic factors and financial integration within the context of India. By examining the impact of variables such as GDP growth, inflation, exchange rate volatility, fiscal policy, and monetary policy on financial integration, this study contributes to a deeper understanding of the mechanisms driving the integration of Indian financial markets with both domestic and global counterparts.

RESEARCH METHODOLOGY

The empirical framework that was developed by Kari (2004) was applied in the research in order to measure the degree of instability that is linked with the macroeconomic system. This was done in order to facilitate quantitative analysis. This framework is solely responsible for conducting an analysis of the economic conditions of developing countries, in contrast to other

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ISSN -2393-8048, July-December 2020, Submitted in October 2020, iajesm2014@gmail.com

studies that focus on both developing economies and economies that have already been formed. When used to the field of macroeconomics, the term "macroeconomic instability" refers to the volatility of aggregate macroeconomic indicators from one period to the next. This is what is meant by the phrase "macroeconomic instability." When attempting to define it, the usual approach that is typically utilized is the standard deviation, which is a statistical metric that determines the degree to which a variable deviates from its mean.

RESULT AND DISCUSSION

In the long term, it has been proved through the utilization of Johansen's max m and the trace m statistics that there is a relationship that exists between the variables that are being investigated. This link has been shown to exist at all times. As a result of this observation, which provides support for the notion, the application of VECM for the analysis of short-run dynamics is supported. The results of the Johansen–Juselius Cointegration test that was carried out in 1990 are summarized which provides an overview of the findings collected. It would appear that the trace and maximum eigenvalue statistics reflect distinct findings, based on the observations that have been made. The max-eigen test is statistically significant in rejecting the null hypothesis of r=0 at the 0.05 percent level of significance, but the trace test is statistically significant in rejecting the null hypothesis of r=2 at the same level of significance. Both tests are statistically significant in rejecting an alternative hypothesis. Both of these tests have yielded results that are statistically significant when taken as a whole.

According to the results of the trace test, which revealed three cointegrating equations, and the max-eigenvalue test, which suggested that there was only one cointegrating equation, it has been established that a long cointegrating equation does in fact exist. These two tests were carried out simultaneously.

Hypothesised No of CE (s)	Trace Statistic	Max-eigen Statistic	Critical Values (5%)	
			Trace	Max-eigen
r = 0	172.7628**	61.43667**	125.6154	46.23142
$r \le 1$	111.3261**	36.61778	95.75366	40.07757
r ≤ 2	74.70835**	28.18093	69.81889	33.87687
r ≤ 3	46.52742	24,29224	47.85613	27.58434
$r \le 4$	22.23518	12.53089	29.79707	21.13162
r≤5	9.704288	9.113306	15.49471	14.26460
r ≤ 6	0.590981	0.590981	3.841466	3.841466

Source Author's actimation

It is conceivable to draw a relationship between the integration of financial markets and the volatility of the macroeconomy. This connection can be established successfully. It is of the utmost importance to acknowledge the significance which this link holds.

IMPULSE RESPONSE PLOTS

For the purpose of determining the effect that shocks to the macroeconomy have on the indicators of the financial market, a computation has been carried out. For the purpose of this computation, the impact of changes in macrovariables on the return on instruments of the financial market was taken into consideration. The development of the Impulse Response Plot (IRP), which is based individually on the data sample for each sample period that was taken into consideration in this study, has resulted in the generation of documentation of the impacts that have been generated. The impulse response function is a function that provides an indication of the transmission effect. This function provides an indication of the transmission effect by supplying an indication of the transmission effect of innovations in one variable to the shock of another variable.

CONCLUSION

Because of the growing financial integration that is taking place on a global scale, it is not unusual for highly connected countries to see an increase in the volatility of their financial conditions. This is because of the fact that the global financial system is becoming more

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ISSN -2393-8048, July-December 2020, Submitted in October 2020, iajesm2014@gmail.com

interconnected. As a result of the growing financial integration that is going place, this is a consequence. It is because of this circumstance that this effect has come about. This effect is a consequence of the fact that the economy is becoming more integrated. The appearance of this particular effect is a result that is frequently brought about as a consequence of the rising integration of financial markets. This is the case when it comes to the appearance of this particular effect. This consequence that is a consequence of that integration is the effect of the increasing degree of financial integration that the world is currently experiencing, and it is a consequence that is a consequence of that integration. Countries that are still in the process of creating their economies are cautious when it comes to the development of capital accounts.

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